

Hoodless Air Intake Filters & Tank Vents

Series B50 - Enameled Carbon Steel • Series B52 - 304 Stainless Steel

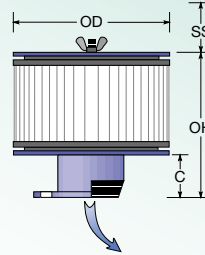


- Air Flows to 20,000 CFM
- B50 - Enameled Steel Construction
- B52 - 304SS
- 304SS Throat Safety Cages
- Connection Sizes from 1/2" to 24"

Series B50 & B52 Air Intake Filters are similar to B10 & B12. They simply substitute a top plate for a hood or cap & skirt assy. The hoodless design simplifies visual inspection for indoor or other sheltered locations and saves cost on initial purchase.

These integral safety cages preclude items such as dropped pens, coins, and most other objects from falling downstream into the compressor or blower at time of change

*out of the filter element. It only takes one such event to prove the worth of this design. * Safety cages are not included in Economy Housing Models B70*



For more information contact :
SparksFilters 585-624-4500

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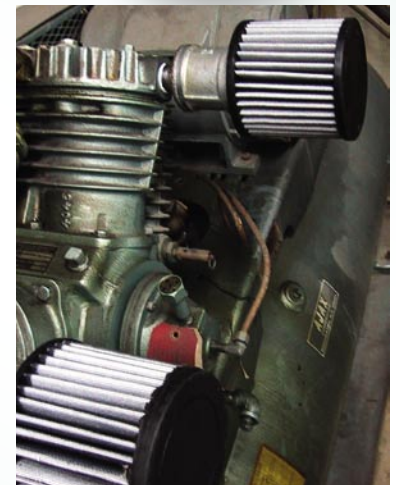
Consult us for use with reciprocating compressors.

LP* denotes our Low Profile style housings.

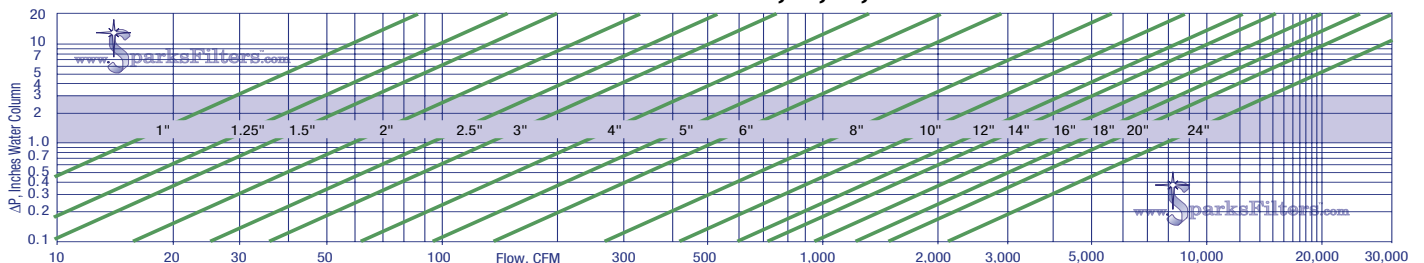
Housing Model Number	Typical CFM	Standard Outlet		Approximate Dimensions in Inches				Approx Wgt Lbs.	Element Number
		Size	Type	OH	OD	C	Service Space		
B50-0400-MT-005	12	1/2"	Male NPT	6 1/2"	3 1/2"	2"	4 1/4"	1	321-3394K5
B50-0400-MT-007	18	3/4"	Male NPT	6 1/2"	4"	2"	4 1/4"	1	321-3394K5
B50-0400-MT-010	25	1"	Male NPT	6 1/2"	4"	2"	4 1/4"	1	321-3394K5
LP* B50-0416-MT-005	12	1/2"	Male NPT	4 1/2"	5 3/4"	2"	2 1/4"	1	321-3395K5
LP* B50-0416-MT-007	18	3/4"	Male NPT	4 1/2"	6 1/4"	2"	2 1/4"	1	321-3395K5
LP* B50-0416-MT-010	25	1"	Male NPT	4 1/2"	6 1/4"	2"	2 1/4"	1	321-3395K5
B50-0401-MT-012	40	1 1/4"	Male NPT	6 1/2"	3 3/4"	2"	4 1/4"	1.3	321-3396K5
LP* B50-0417-MT-012	40	1 1/4"	Male NPT	4 1/2"	5 3/4"	2"	2 1/4"	1.3	321-3397K5
B50-0402-MT-015	65	1 1/2"	Male NPT	6 1/2"	5"	2"	4 1/4"	1.3	321-3398K5
LP* B50-0418-MT-015	65	1 1/2"	Male NPT	4 1/2"	7"	2"	2 1/4"	1.3	321-3399K5
B50-0403-MT-020	90	2"	Male NPT	8 1/2"	5 1/2"	2"	6 1/4"	2	321-3400K5
LP* B50-0419-MT-020	90	2"	Male NPT	6 1/8"	7 1/2"	2"	4"	2	321-3401K5
B50-0404-MT-030	200	3"	Male NPT	11 1/2"	7 1/4"	3"	8 1/4"	2	321-3402K5
LP* B50-0420-MT-030	200	3"	Male NPT	8 1/8"	9 3/4"	3"	5"	2	321-3403K5
B50-0405-MT-040	350	4"	Male NPT	11 1/2"	8 3/4"	3"	8 1/4"	10	321-3404K5
LP* B50-0421-MT-040	350	4"	Male NPT	8 1/8"	11 3/4"	3"	5"	10	321-3405K5
B50-0406-MT-050	800	5"	Male NPT	16 1/2"	11 1/4"	4"	12 1/4"	12	321-3406K5
B50-0406-FF-050	800	5"	Plate Flg	16 1/2"	11 1/4"	4"	12 1/4"	12	321-3406K5
LP* B50-0422-MT-050	800	5"	Male NPT	11 1/4"	13 3/4"	3"	8 1/4"	10	321-3407K5
LP* B50-0422-FF-050	800	5"	Plate Flg	11 1/4"	13 3/4"	3"	8 1/4"	10	321-3407K5
B50-0407-MT-060	950	6"	Male NPT	16 1/2"	12 1/2"	4"	12 1/4"	12	321-3408K5
B50-0407-FF-060	950	6"	Plate Flg	16 1/2"	12 1/2"	4"	12 1/4"	12	321-3408K5
LP* B50-0423-MT-060	950	6"	Plate Flg	11 1/4"	15"	3"	8 1/4"	10	321-3409K5
LP* B50-0423-FF-060	950	6"	Plate Flg	11 1/4"	15"	3"	8 1/4"	10	321-3409K5
B50-0408-FF-080	1800	8"	Plate Flg	16 1/2"	15"	4"	12 1/4"	28	321-3410K5
B50-0409-FF-100	3000	10"	Plate Flg	24 1/2"	17"	6"	18 1/2"	40	321-3411K5
B50-0410-FF-120	3500	12"	Plate Flg	24 1/2"	19"	6"	18 1/2"	80	321-3412K5
B50-0411-FF-140	4800	14"	Plate Flg	30 1/2"	20 1/2"	6"	24 1/2"	85	321-3413K5
B50-0412-FF-160	6000	16"	Plate Flg	30 1/2"	22 1/2"	6"	24 1/2"	120	321-3414K5
B50-0413-FF-180	7000	18"	Plate Flg	30 1/2"	25"	6"	24 1/2"	140	321-3415K5
B50-0414-FF-200	10000	20"	Plate Flg	30 1/2"	27 1/2"	6"	24 1/2"	230	321-3416K5
B50-0415-FF-240	13000	24"	Plate Flg	30 1/2"	31 1/2"	6"	24 1/2"	270	321-3417K5

Sparks™ Hoodless Air Intake Filters are perfect for indoor use where a weather hood is not required. These elements are immediately visible without needing to remove a hood, simplifying routine maintenance inspections. They are also lighter and small units are consequently better suited to avoid vibration damage that is possible with horizontal mounting. ... We can also offer optional internal support assemblies when mounting large filters horizontally. Ask us for details.

See <http://www.sparksfilters.com> for more options.



ΔP vs. Flow: Series A, B, C, and D



Use the chart above to access the init. ΔP vs. flow for series A, B, C, & D air intakes. Be aware that the maximum practical flow through a filter housing, like other piping, is limited primarily by the cross sectional area of the connection. Compare the connection size shown

below with the desired flow. It is prudent to select a connection having a value that is central to the shaded area. While engines and reciprocating compressors can tolerate inlet air restrictions to 20" W.C., lesser blowers or fans may require element service at 5" W.C. While the init ΔP does

not increase, the specific filtration resistance of the airborne contaminants in your location ultimately dictate element life. High performance textile elements routinely serve for periods from 3 mos. to 2 yrs., with 1 yr. being common.



Air Intake Filter Choices

Model Considerations, Air Flow Sizing, Connection Style Choices, Plate Flange Sizing

For more information contact :

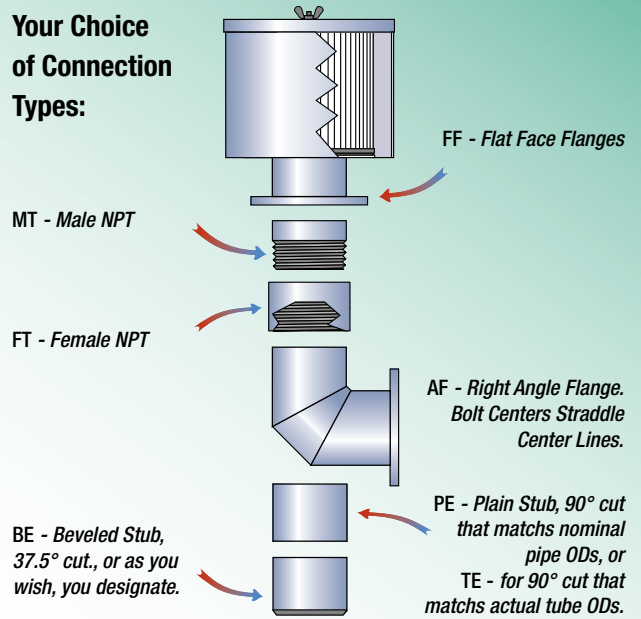
SparksFilters 585-624-4500

585-624-5300 fax

E-Mail: Sales@sparksfilters.com

Sparksfilters are available in a wide selection of inlet and outlet sizes and configurations in both enamel finished carbon steel, 304SS, and 316SS. Atmospheric air intake series B10, B12, and B70 with weather hoods can be mounted directly, or piped from a roof top installation to equipment below. In sheltered installations, hoodless air intake series B50 and B52 with exposed filter elements make inspection or pre-filter cleaning a breeze. To silence excess noise at the equipment's inlet, chamber silenced series C10 & C12, or tube silenced series D10 & D12 can cut noise in half. In-line filters E20, E22, & Side Arm Housings F20, & F22 permit installation anywhere between the inlet source and equipment being served. They're perfect for indoor placement with exterior draws, eliminating the need to climb onto the roof. Models with bolt seal closures serve internal pressures to 5 psid (opt. greater) in air or gas services. The H20, H22 exhaust series can stop most mist and smoke in its tracks, without the ΔP penalty loss of older designs. Their revolutionary radial fin reverse flow design makes it happen. An exclusive removable 304SS perforated steel safety cage guards the housing's throat to eliminate the heart attacks when you drop your hat or the wing nut during change out of the filter element. This cage has been sized with excess open area to avoid pressure loss. If you've ever searched for the wing nut when changing the air filter on your auto, you know first hand just how important a throat guard can be. Standard models have male NPT (MT) or flat face flange (FF) connections. Flanges match the diameter & drilling for 150# ANSI standard. Select optional right angle base (AF) for side mounts, female NPT (FT), bevel (BV) or square cut stub necks (PE) where you wish to weld in place. The right angle connection permits exterior wall mounts with gravity still working on your side to ensure an enduring element seal. For situations where you absolutely positively must go truly on edge, we can provide units for horizontal mount with special interior element side mount support assemblies. Increased or decreased connection sizes are also available on any model. Consult us for other material options.

Your Choice of Connection Types:

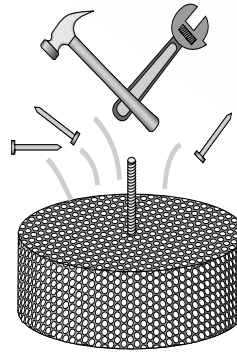


See <http://www.sparksfilters.com> for more options.

Flange	Bore	OD	BC	Hole Bore	# Holes
3	3.5	7.5	6	0.75	4
4	4.5		7.5	0.75	8
5	5.6	10	8.5	0.875	8
6	6.7	11	9.5	0.875	8
8	8.7	13.5	11.75	0.875	8
10	10.88	16	14.25	1	12
12	12.88	19	17	1	12
14	14.1	21	18.75	1.125	12
16	16.1	23.5	21.25	1.125	16
18	18.1	25	22.75	1.25	16
20	20.2	27.5	25	1.25	20
24	24.2	3	29.5	1.375	20

Thickness = 3/8" to 1/2" all

Data above will assist in matching the flange connection of any existing filter housing(s) in need of replacement. Sparks™ flanges match the diameter & drilling for 150# ANSI standard. Since it is not practical to measure the Bore of an installed unit, wrestle with your not very flexible metal tape to measure a 90° arc (1/4 of the circle, see red line) over the bolts of your existing flange. Multiply by 4. Count the bolts. Compare with the chart above. **Do Not** rely upon the more easily measured flange OD for flange sizing as it can vary between suppliers.

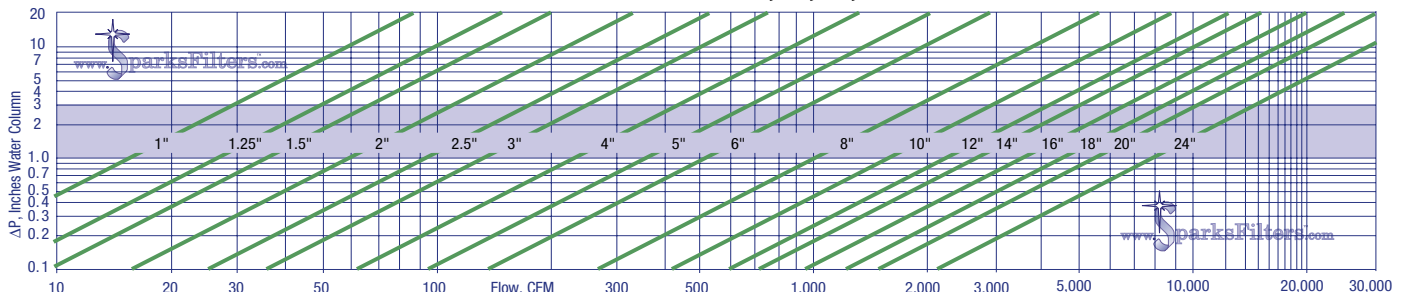


A 304SS throat safety cage sits beyond the filter element on all but economy housings. This exceptional feature ensures that the handle or pen you drop during change out doesn't fall into the process equipment downstream! And because it's 304SS, it's maintenance free.



Wing nuts and sealing washer for easy access. Another small detail that eliminates your need to hunt around for a wrench in order to take a quick look at the filter element.

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